

(54) REFLECTION-TYPE LIGHT-EMITTING DIODE
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PURPOSE: To obtain a reflection-type LED with a large contrast when turning on and off light by using a material for enabling light of wavelength emitted by a light-emitting element to be transmitted selectively as a light-transmission material.

CONSTITUTION: A light-emitting element 1, lead frames 2 and 3, and a wire 4 are sealed by a light-transmission material 5 for enabling light emitted by the light-emitting element 1 to be transmitted selectively. If for example the wavelength of 660nm, most of the wavelength emitted by the light-emitting element 1 is within $\pm 20\text{-}30\text{nm}$ for a peak value of 660nm. Thus, when the light-transmission material 5 for enabling light with a wavelength above 600nm to be transmitted selectively is used, light of 660nm $\pm 20\text{-}30\text{nm}$ wavelength emitted by the light-emitting element 1 is not absorbed by the light-transmission material 5 but is reflected by a reflection surface 6 and is radiated to the outside.

